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Supplementary Material

Harvest index combined with impaired N availability constrains the responsiveness of durum wheat to elevated CO_2 concentration and terminal water stress

Gorka Erice[A,D], *Alvaro Sanz-Sáez*[B,E], *Amadeo Urdiain*[A], *Jose L. Araus*[B], *Juan José Irigoyen*[A] *and Iker Aranjuelo*[C,F]

[A]Departamento de Biología Vegetal, Sección Biología Vegetal, Facultades de Ciencias y Farmacia, Universidad de Navarra, c/ Irunlarrea 1, Pamplona, Navarra, Spain.

[B]Departament de Biologia Vegetal, Facultat de Biologia, Universidad de Barcelona, Av. Diagonal, 645 08028 Barcelona, Spain.

[C]Instituto de Agrobiotecnología, Universidad Pública de Navarra-CSIC-Gobierno de Navarra, Avenuenida de Pamplona 123, E-31192, Mutilva Baja, Spain.

[D]Present address: Institute for Genomic Biology, University of Illinois, Urbana-Champaign, 1206 W. Gregory Drive, Urbana, IL 61801, USA.

[E]Present address: Departments of Plant Biology and Crop Science, University of Illinois, Urbana-Champaign, 1201 W. Gregory Drive, Urbana, IL 61801, USA.

[F]Corresponding author. Email: iker.aranjuelo@unavarra.es

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Table S1. Summary of the statistical significances, F and p values (within parenthesis), of the different parameters measured in this study

	Agrowth ($\mu mol\ m^{-2}\ s^{-1}$)	g_m ($\mu mol\ m^{-2}\ s^{-1}$)	Cc ($\mu mol\ mol^{-1}$)	Rd ($\mu mol\ m^{-2}\ s^{-1}$)	A_{400} ($\mu mol\ m^{-2}\ s^{-1}$)	A_{700} ($\mu mol\ m^{-2}\ s^{-1}$)	Fv/Fm ($\mu mol\ mol^{-1}$)
Genotype	0.332 (0.571)	2.11 (0.165)	1.12 (0.304)	1.25 (0.278)	1.07 (0.313)	0.007 (0.934)	0.96 (0.34)
CO_2	14.55 (≤ 0.001)	5.61 (0.031)	3.96 (0.062)	0.54 (0.47)	31.06 (≤ 0.001)	0.756 (0.395)	3.69 (0.07)
Water	57.01 (≤ 0.001)	8.43 (0.010)	5.58 (0.30)	0.49 (0.49)	62.32 (≤ 0.001)	44.35 (≤ 0.001)	4.11 (0.057)
Gen x CO_2	1.13 (0.301)	1.85 (0.192)	1.082 (0.312)	0.19 (0.67)	3.40 (0.081)	1.76 (0.2)	0.55 (0.47)
Gen x water	1.72 (0.25)	4.22 (0.057)	0.009 (0.924	0.97 (0.33)	3.06 (0.096)	4.07 (0.058)	0.17 (0.68)
CO_2 x water	5.8 (0.026)	2.29 (0.150)	4.08 (0.058)	0.12 (0.73)	0.374 (0.548)	3.65 (0.071)	0.005 (0.94)
Gen x CO_2 x Water	1.47 (0.24)	1.52 (0.235)	2.11 (0.163)	0.85 (0.36)	5.87 (0.026)	3.73 (0.068)	0.315 (0.58)

	Starch (mg g^{-1} DM)	TSP (mg g^{-1} DM)	Rubisco ($\mu mol\ g^{-1}$ DM)	Aa ($\mu mol\ g^{-1}$ DM)	NO_3 ($g\ m^{-2}$)	Sucrose (mg g^{-1} DM)
Genotype	10.65 (0.005)	8.77 (0.009)	4.44 (0.051)	0.031 (0.863)	3.63 (0.075)	23.80 (≤ 0.001)
CO_2	3.41 (0.083)	34.92 (≤ 0.001)	42.24 (≤ 0.001)	5.27 (0.035)	7.46 (0.015)	61.91 (≤ 0.001)
Water	3.46 (0.081)	33.34 (≤ 0.001)	43.95 (≤ 0.001)	1.05 (0.321)	1.35 (0.262)	48.21 (≤ 0.001)
Gen x CO_2	0.43 (0.522)	7.9 (0.013)	0.22 (0.646)	2.19 (0.158)	0.03 (0.865)	3.13 (0.096)
Gen x water	0.42 (0.527)	33.48 (≤ 0.001)	30.79 (≤ 0.001)	0.178 (0.679)	0.049 (0.827)	1.18 (0.293)
CO_2 x water	0.005 (0.945)	2.37 (0.144)	25.27 (≤ 0.001)	0.019 (0.893)	4.36 (0.053)	3.43 (0.083)
Gen x CO_2 x Water	41.40 (≤ 0.001)	0.026 (0.873)	1.29 (0.272)	0.068 (0.798)	0.625 (0.441)	26.63 (≤ 0.001)